

Title (en)

Emulsion for robust sensing of gases

Title (de)

Emulsion zur robusten Erfassung von Gasen

Title (fr)

Emulsion pour détection fiable de gaz

Publication

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Application

EP 00107239 A 19961015

Priority

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- US 56203695 A 19951122

Abstract (en)

The present invention provides an optical fluorescence based sensor for measuring the concentration of a gas (e.g., CO₂ or ammonia) in a medium such as blood which has superior dry web sensor performance, enhanced sensor consistency for transparent sensor calibration, improved autoclave stability and rapid rehydration of the sensor. In a preferred embodiment, the sensors of the present invention comprise microcompartments of an aqueous phase having a pH sensitive indicator component and a nonionic amphipathic surfactant within a hydrophobic barrier phase comprising a plurality of dispersed hydrophobic particles.

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